

TANNOY | S E N S Y S |  **DUAL**TM
CONCENTRIC |  **WIDEBAND**TM
TECHNOLOGY

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TANNOY[®]

S E N S Y S

 **WIDEBAND**TM
TECHNOLOGY

With the introduction of Sensys Tannoy has combined the core element of sound quality with the other equally essential ingredients, cutting edge technology, clean aesthetic design and affordability, to produce a class leading range of exceptional loudspeakers.

Avoiding visual tricks that often cause designs to quickly date, the refreshingly uncluttered appearance of Sensys is as reassuringly unpretentious it is timeless.

This enduring aesthetic appeal, together with the host of technological features incorporated to benefit the acoustic performance, ensures that the Sensys range offers stereo and multi channel A/V system solutions that will provide complete audio satisfaction for years to come.

ENGAGE THE SENSES.

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TANNOY **WIDEBAND™** TECHNOLOGY

For many years, Tannoy has pioneered wide bandwidth audio reproduction in its high-end loudspeaker designs. The undisputed benefits of extended high frequency performance have been recognised by audio enthusiasts and recording industry professionals worldwide. Tannoy has received many international awards for products utilising Wideband™ technology.

Although developed in parallel with the emerging technologies of extended bandwidth SACD and DVDA players, our engineers have long since recognised the improvement that a Wideband™ Tannoy SuperTweeter™ can make to a system, even when using bandwidth limited conventional analogue or digital recorded software. The key element to understand first of all is that Wideband™ performance drive units are not there simply to increase the amount of high frequency information you perceive, the acoustic benefit is much more subtle than that. It is the enhancement of the frequencies within the accepted audible band that makes this technology so special.

'Why bother with frequencies only your dog can hear?'

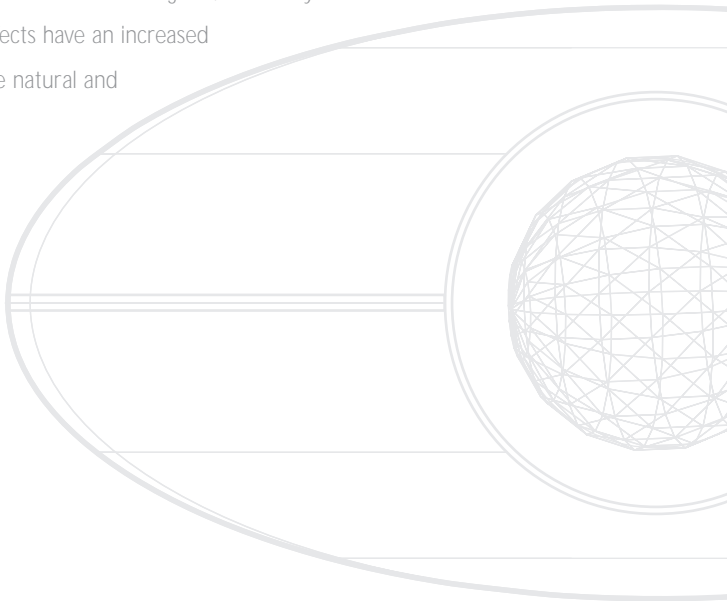
This question, often asked, takes us to the very heart of what Tannoy Wideband™ technology is all about:

Musical instruments produce considerable energy above 20kHz and, with effects of harmonics and overtones, achieve frequencies well beyond what might generally be considered as the limit of human hearing. For instance, the over 20kHz energy of a trumpet, fitted with a particular type of mute, does not drop into the noise floor until 100kHz. Violin and oboe exhibit energy above 40kHz, while sibilants in speech can also be shown to have energy above 40kHz.

Research has shown, through the measurement brain wave activity, that humans do perceive ultrasonic components within music. Concluding that the mechanism of ultrasound transmission is through bone conduction, probably via an organ in the inner ear, called the saccule, to the cochlea, the organ responsible for hearing.

In addition, Wideband™ technology reduces phase error and significantly improves transient performance below 20kHz. This leads to increased tonal accuracy throughout the whole frequency range, even bass information is faster and tighter, effectively enhancing the total listening experience. Music, speech and soundtrack effects have an increased immediacy, airiness and impact, providing a performance that sounds more natural and true to life.

Extreme physical demands are placed on the high frequency unit when performing at such extended bandwidth levels. The need to achieve completely consistent constructional and acoustic quality has led Tannoy to design and produce its own titanium dome driver at its Scottish based manufacturing facility.





THE CUSTOM CONNECTION PANEL, WITH ITS FOUR GOLD PLATED TERMINALS AND LINK BARS, IS DESIGNED TO ALLOW THE SPEAKERS TO BE WIRED IN BI-WIRE MODE FOR OPTIMUM FIDELITY.

SENSYS 1

With a 175mm (7") cast chassis mid bass driver and Wideband™ high frequency unit this is a bi-wireable stand mount speaker of immense ability. Combining tremendous bass weight and impact with natural open voicing and sound staging.



GRAPHITE COLOUR GRILLES SUPPLIED ON ALL MODELS AND FINISHES. ALTERNATIVE SILVER GRILLES ARE AVAILABLE AS AN ADDITIONAL EXTRA.

SENSYS 2

The addition of a second 175mm (7") bass unit enables this elegant floor standing loudspeaker to deliver rich and extended bass with control and finesse. Superbly agile and involving in a hi-fi stereo application the Sensys 2 is also capable of delivering the scale and impact essential to create a class leading home cinema system.

MAGNETICALLY SHIELDED CAST CHASSIS DRIVERS



ALL SENSYS MODELS AVAILABLE IN MAPLE, ROSEWOOD AND BLACK ASH.



SENSYS^{SC}

As with all Sensys loudspeakers, this compact centre channel speaker is fully shielded.

Voiced to blend seamlessly with the other discrete driver models in the Sensys range, this compact speaker is able to deliver pinpoint vocal articulation and effects localisation with immense authority.



ALL MODELS ARE FULLY MAGNETICALLY SHIELDED TO PREVENT COLOUR FRINGING EFFECTS WHEN SPEAKERS ARE PLACED CLOSE TO A TV OR MONITOR.

SENSYS^R



As an important component of a successfully involving home cinema system, the rear effects must integrate well with the rest of the equipment to create a believable movie experience. The Sensys rear speakers do so with real ease, creating an integrated soundstage with even the most demanding of modern film soundtracks.



SENSYS

TANNOY DUAL CONCENTRIC™ TECHNOLOGY

In the exacting professional world of mixing and mastering, studio engineers demand superior results. The Tannoy Dual Concentric™ co-incident point source technology is renowned worldwide throughout the audio and film industry for its accuracy in the reproduction of sound. For the DC models in the Sensys range, intensive research and development has produced an updated and highly refined version of this famous, and exclusive, Tannoy drive unit.

The time coherent, point source and constant directivity nature of the dispersion characteristics inherent in the Dual make it an accepted industry standard in studio monitoring. By exceeding the rigorous demands of the recording and mastering environment Tannoy can ensure that playback performance in the home, whether in two channel stereo or multi channel home cinema mode, is strictly controlled to accurately reflect the sound engineers artistry.

In nature all sounds emanate from a single point in space. The high frequency unit of the Dual, centrally mounted in the throat of the main mid/bass driver, is so positioned as to acoustically replicate this single point source; delivering an involving and natural sound with an incredibly wide imaging 'sweet spot', which serves to create an expansive soundstage with remarkably focussed placement of vocals and instrumentation.

Placed at the top of the Sensys range the Tannoy Dual Concentric™ driver models provide a superior acoustic performance with enhanced dynamics, power handling and efficiency.



CAST CHASSIS DUAL CONCENTRIC™
CO-INCIDENT POINT SOURCE DRIVER USED
IN ALL SENSYS DC MODELS.



- 1 TITANIUM HF DRIVE UNIT ASSEMBLY WITH NEODYMIUM MAGNET SYSTEM AND TULIP WAVEGUIDE™
- 2 MAGNETIC SHIELD
- 3 CANCELLATION MAGNET SYSTEM
- 4 FLUX OPTIMISED BACK PLATE
- 5 LF MAGNET SYSTEM
- 6 TOP PLATE
- 7 HIGH RIGIDITY CAST CHASSIS
- 8 FLAT SINGLE LAYER COPPER CLAD ALUMINIUM VOICE COIL
- 9 REAR SUSPENSION
- 10 MULTI FIBRE PAPER PULP CONE WITH NITRILE RUBBER SURROUND



S E N S Y S



S E N S Y S DC1

Although sharing the same immensely robust cabinet construction as the discrete driver model, the DC1 sets new standards of audio performance in its class. The combination of the Dual Concentric™, the SuperTweeter™ and driver earthing facility exemplifies Tannoy's desire to expand the application of high-end acoustic engineering into mid price product ranges.



THE CLASS LEADING PERFORMANCE OF THE DUAL CONCENTRIC™ DRIVER IS FURTHER ENHANCED BY THE INCLUSION OF A POD MOUNTED TANNOY SUPERTWEETER™, WHICH EXTENDS THE FREQUENCY BANDWIDTH TO OVER 50KHZ. GREATER PRECISION, TIGHTER IMAGING AND INCREASED PRESENCE ARE ASSURED THROUGHOUT THE ENTIRE AUDIBLE FREQUENCY BAND: EVEN WITH ANALOGUE RECORDINGS, FILM SOUNDTRACKS OR NORMAL RED BOOK STANDARD 20KHz LIMITED CD SOFTWARE.

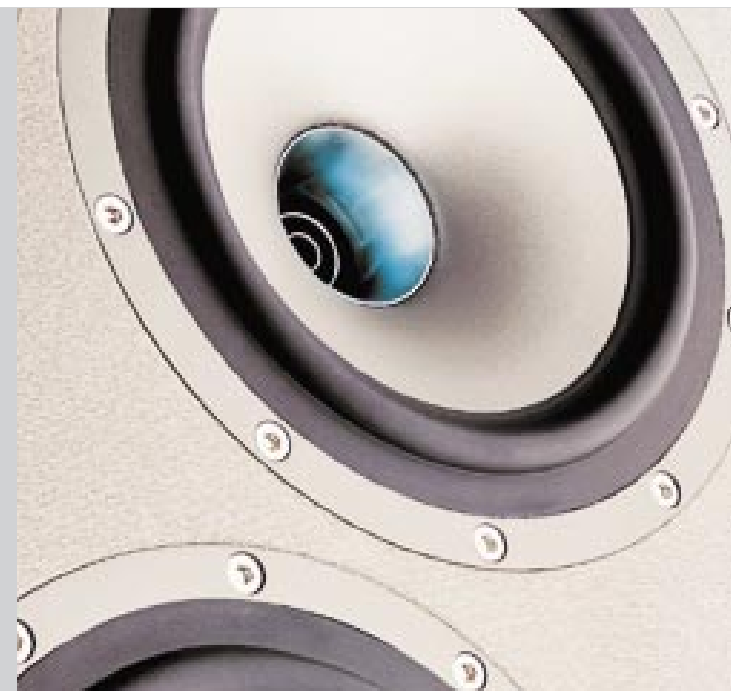


GRAPHITE COLOUR GRILLES SUPPLIED ON ALL MODELS AND FINISHES. ALTERNATIVE SILVER GRILLES ARE AVAILABLE AS AN ADDITIONAL EXTRA.

S E N S Y S DC2

The 175mm (7") Dual combines with a supplementary bass driver of the same size to deliver a breathtaking blend of power and finesse. This loudspeaker has real presence. The pod mounted SuperTweeter™ has the effect of producing an uncannily airy soundstage that has great precision and focus in its placement of instrumentation, voice and effects. This is a compact floor standing loudspeaker with coolly contemporary aesthetics and a very, very big heart.

CAST CHASSIS DUAL CONCENTRIC CO-INCIDENT POINT SOURCE DRIVER



ALL SENSYS MODELS AVAILABLE IN MAPLE, ROSEWOOD AND BLACK ASH.

DUAL™ CONCENTRIC | **WIDEBAND™** TECHNOLOGY



SENSYS DCC

With the same driver and technology configuration as the other DC models this represents the heart of the ultimate Sensys home theatre system. The remarkable dispersion characteristics of the Dual Concentric™ driver ensure that the total system soundstage is wonderfully focussed and that panning effects are controlled with eerie precision.



THE AIRWAVES ARE SATURATED WITH RADIO FREQUENCY INTERFERENCE. THE VOICE COIL IN ANY LOUDSPEAKER SYSTEM HAS THE POTENTIAL TO PICK THIS UP BY ACTING AS AN AERIAL, CONTRIBUTING TO NOISE AND DISTORTION IN THE OUTPUT SIGNAL WHEN FED BACK TO THE AMPLIFIER.

THE TANNOY SYSTEM OF DRIVER CHASSIS EARTHING OPTIMISES THE PERFORMANCE OF THE AMPLIFIER BY REDUCING THESE EFFECTS.

SENSYS DC1

The dynamics contained within movie soundtracks dictate that rear effects presentation is a vital element of the complete audio experience. To maximise sonic scale and impact, together with ensuring seamless integration of the total soundstage, the DC1 stand mount speaker has been designed with OmniMount™ fixing positions to allow it to double as the rear channel speaker in a Sensys A/V system.



SENSYS TECHNICAL SPECIFICATIONS

DISCRETE DRIVER MODEL TECHNICAL SPECIFICATIONS				
	SENSYS 1	SENSYS 2	SENSYS C	SENSYS R
PERFORMANCE				
Recommended amplifier power- Watts RMS	20 - 100	20 - 150	20 - 125	20 - 100
Continuous power handling - Watts RMS	75	110	90	75
Peak power handling - Watts	225	325	275	225
Sensitivity (2.83Volts @ 1 mtr)	88dB	89dB	88dB	87dB
Nominal impedance - Ohms	8	8	8	8
Low Frequency Alignment (-6dB)	49Hz	39Hz	51Hz	58Hz
Frequency response - 6dB	49Hz - 51kHz	39Hz - 51kHz	51Hz - 51kHz	58Hz - 51kHz
DRIVE UNITS				
WideBand™ high frequency	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system
Low frequency	175mm (7") Multi fibre paper pulp cone	2 x 175mm (7") Multi fibre paper pulp cone	2 x 175mm (7") Multi fibre paper pulp cone	1 x 165mm (6") Multi fibre paper pulp cone
Shielded	Yes	Yes	Yes	Yes
CROSSOVER				
Crossover frequency	2.7kHz	250Hz	2.8kHz 2.7kHz	2.7kHz
Crossover type	2nd order LF 3rd order HF	2nd order LF 3rd order HF 2nd order LLF	2nd order LF 3rd order HF	2nd order LF 3rd order HF
CABINET				
Enclosure type	Reflex	Reflex	Reflex	Closed box
Construction	15mm particle board, internally cross-braced enclosure 15mm front baffle	15mm particle board, internally cross-braced enclosure 15mm front baffle	15mm particle board, internally cross-braced enclosure 15mm front baffle	15mm particle board, internally cross-braced enclosure 15mm front baffle
Dimensions - inc grille mm (inches)	350 x 210 x 292 (13¾ x 8¼ x 11½)	910 x 210 x 293 (35¾ x 8¼ x 11)	210 x 350 x 284 (8¼ x 13¾ x 11¼)	280 x 187 x 170.5 (11 x 7½ x 6⅞)
Volume - litres	13	36	13	4.5
Weight kg (lbs)	7 (15.4)	15 (33.1)	9.5 (20.9)	4 (8.8)
Finish options	Maple, Black Ash and Rosewood	Maple, Black Ash and Rosewood	Maple, Black Ash and Rosewood	Maple, Black Ash and Rosewood

DUAL CONCENTRIC™ DRIVER MODEL TECHNICAL SPECIFICATIONS			
	SENSYS DC1	SENSYS DC2	SENSYS DCC
PERFORMANCE			
Recommended amplifier power- Watts RMS	20 - 150	20 - 175	20 - 150
Continuous power handling - Watts RMS	110	125	110
Peak power handling - Watts	325	375	325
Sensitivity (2.83Volts @ 1 mtr)	88dB	89dB	88dB
Nominal impedance - Ohms	8	8	8
Low Frequency Alignment (-6dB)	39Hz	34Hz	39Hz
Frequency response - 6dB	39Hz - 51kHz	34Hz - 51kHz	39Hz - 51kHz
DRIVE UNITS			
SuperTweeter™ high frequency	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system
Dual Concentric™ high frequency	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system	25mm (1") 25-micron titanium dome, neodymium magnet system
Dual Concentric™ low frequency	175mm (7") Multi fibre paper pulp cone	1 x 175mm (7") Multi fibre paper pulp cone	1 x 175mm (7") Multi fibre paper pulp cone
Low frequency		1 x 175mm (7") Multi fibre paper pulp cone	
Shielded	Yes	Yes	Yes
CROSSOVER			
Crossover frequency	1.8kHz 16kHz	250Hz 1.8kHz 16kHz	1.8kHz 16kHz
Crossover type	2nd order LF 1st order HF Dual 3rd order HF SuperTweeter	2nd order LF 1st order HF Dual 3rd order HF SuperTweeter 2nd order LLF	2nd order LF 1st order HF Dual 3rd order HF SuperTweeter
CABINET			
Enclosure type	Reflex	Reflex	Reflex
Construction	15mm particle board, internally cross-braced enclosure 15mm front baffle	15mm particle board, internally cross-braced enclosure 15mm front baffle	15mm particle board, internally cross-braced enclosure 15mm front baffle
Dimensions - inc grille/excl. pod mm (inches)	406 x 210 x 292 (16 x 8¼ x 11½)	966 x 210 x 293 (38 x 8¼ x 11½)	266 x 350 x 284 (10 x 13¾ x 11¼)
Volume - litres	13	36	13
Weight kg (lbs)	8.5 (18.7)	17 (37.5)	9.5 (20.9)
Finish options	Maple, Black Ash and Rosewood	Maple, Black Ash and Rosewood	Maple, Black Ash and Rosewood

